

# **PREFACE**

This report contains data on births and deaths received by the Office of Vital Records and Statistics, Utah Department of Health, for the year 2001. It serves to make commonly used vital records data available to health programs, health care providers, businesses, researchers, educational institutions and the Utah public. Data are presented for the state, the local health districts, and the counties. Provisional marriage and divorce statistics are provided as totals in the Summary section of this report and another report of this office treats them more extensively.

The Summary section of this report contains current annual and historical tables which provide trends in births, deaths and populations for the state. This is followed by a section of reference tables with more detailed information about births and deaths for the current data year. Following the Reference section is Appendix A which provides technical notes on the sources, quality and limitations of data. It also contains sample copies of the forms used for collecting the vital records data. Appendix B which contains life tables is added for the third time in this series.

## **International Classification of Diseases, 10th Revision (ICD-10)**

Deaths which occurred anywhere in the United States since 1999 were coded and tabulated using the World Health Organization (WHO) tenth revision of the International Classification of Diseases. The ninth revision of the ICD was first used to classify mortality in 1979 and remained in effect through 1998. The tenth revision of the ICD includes changes to coding rules, category names and ICD numbers and changes to the tabulation lists used to produce mortality statistics under ICD-10.

## **Differences Between ICD-9 and ICD-10**

The ICD is changed periodically because of the need to stay abreast of medical advances in disease nomenclature and etiology. As with previous revisions of the ICD, the change to the tenth revision resulted in a much more detailed classification, about 8,000 categories compared with about 4,000 categories in the ninth revision. ICD-10 uses 4-digit alphanumeric codes compared with 4-digit numeric codes in ICD-9. The alphanumeric ICD-10 codes that make up the most common causes of mortality begins in Table A39a of this publication.

## **Discontinuities in Time Series**

Each revision of the ICD has caused discontinuities in trend data. Many new categories for cause of death exist in ICD-10 and some categories from ICD-9 were eliminated. More significantly, mortality rates due to certain causes changed sharply, simply as a result of revisions to the classification system. The effect of discontinuities in mortality trends should be dealt with in mortality analysis by the application of Comparability Ratios to adjust earlier cause-specific mortality rates to be consistent with cause specific mortality rates beginning with data year 1999. Comparability Ratios were derived from the analysis of a large sample of death certificates that were double-coded by the National Center for Health Statistics (NCHS), first using ICD-9, then again using ICD-10. Comparability Ratios for the 113 causes of death which appear in Tables A39a and A40 of this publication appear on the Office of Vital Records and Statistics web-site.



## **Table of Contents**

Page	
ix	List of Summary Tables
xiii	List of Reference Tables
xvii	List of Appendices
S-1	Summary Tables
R-1	Reference Tables
A-1	Technical Notes
B-1	Life Tables



## List of Summary Tables

Page	
S-3	Table 1. Statistical summary, estimated midyear population, births, deaths, maternal deaths, infant mortality, fetal deaths, marriages, divorces and annulments, residents: Utah, 1940-2001
S-5	Table 2. Birth, death, natural increase, infant mortality, marriage, divorce and annulment rates and spontaneous fetal death ratios, residents: Utah and United States, 1950, 1955 and 1960-2001
S-8	Table 3. Statistical summary, estimated midyear population, births, deaths, infant mortality, fetal deaths and abortions by local health district and county of residence: Utah, 2001
S-9	Table 4. Births by local health district and county of residence: Utah, 1980 and 1986-2001
S-10	Table 5. Census of population and intercensal estimates by local health district and county of residence: Utah, April 1, 1990 and 2000 and July 1, 1990 through 2001
S-11	Table 6. Population density by land area (frontier, rural and urban) and county of residence: Utah, 2001
S-12	Table 7. Population, births and deaths by land area of residence: Utah, 2001
S-12	Table 8. Infant mortality total, neonatal and postneonatal by land area of residence: Utah, 2001
S-12	Table 9. Fetal deaths, low-weight births, births to unmarried mothers and abortions by land area of residence: Utah, 2001
S-13	Table 10. Female population, births and fertility rates, resident females 15-44 years of age: Utah and the United States, 1970-2001

(List of Summary Tables continued)

Page	
S-14	Table 11. Gender ratios, number of males per 100 female births, residents: Utah and United States, 1960-2001
S-15	Table 12. Low birthweight percent (less than 2,500 grams) by race, residents: Utah and United States, 1970-2001
S-16	Table 13. Births to unmarried mothers by age of woman, residents: Utah, 1970-2001
S-17	Table 14. Birth rates to unmarried mothers per 1,000 live births by age of woman, residents: Utah, 1970-2001
S-18	Table 15. Percent distribution of births by tobacco use of mother (average number of cigarettes per day per trimester) and birthweight of infant, residents: Utah, 2001
S-18	Table 16. Percent distribution of births by alcohol use of mother (average number of drinks per week per trimester) and birthweight of infant, residents: Utah, 2001
S-20	Table 17. Leading causes of death and death rates: Utah, 2000 and 2001 (This table will be updated to compare the 15 leading causes of death for the United States and Utah for data years 1999, 2000, and 2001.)
S-21	Table 18. Deaths by selected causes, residents: Utah, 1999-2001
S-22	Table 19. Deaths and death rates by selected causes, residents: Utah, 1999-2001
S-23	Table 20. Expected years of life and working years of life lost by selected underlying cause of death, residents: Utah, 2001
S-24	Table 21. Infant mortality rates by age at death, residents: Utah, 1970-2001

(List of Summary Tables continued)

Page	
S-25	Table 22. Deaths by local health district and county of residence: Utah, 1990-2001
S-26	Table 23. Deaths and percent of deaths by selected causes, Hispanic all races and Non-Hispanic origin, residents: Utah, 2001
S-27	Table 24. Deaths and percent of deaths by age, Hispanic all races and Non-Hispanic origin, residents: Utah, 2001
S-27	Table 25. Deaths and death rates from unnatural causes, residents: Utah and United States, 1999-2001
S-28	Table 26. Deaths due to suicide by age, gender and year, residents: Utah, 1990-2001
S-29	Table 27. Pregnancies, pregnancy rates and populations by specific age-groups, residents: Utah, 1990-2001
	Summary Figures
S-7	Figure 1. Estimated resident population, July 1, each year: Utah, 1960-2001
S-7	Figure 2. Rate of natural increase: Utah and United States, 1960-2001
S-7	Figure 3. Crude birth rates: Utah and United States, 1960-2001
S-7	Figure 4. Crude death rates: Utah and United States, 1960-2001
S-19	Figure 5. Percent distribution of births by tobacco use of mother and birthweight of infant, residents: Utah, 2001
S-19	Figure 6. Percent distribution of births by alcohol use of mother and birthweight of infant, residents: Utah, 2001
S-24	Figure 7. Infant mortality rates: Utah and United States, 1970-2001





## List of Reference Tables

### Page

R-3	Table A1. Births by health district, county of occurrence, gender, attendant and hospital delivery: Utah, 2001
R-4	Table A2. Births by health district, county of residence of mother, gender, number born and birth order: Utah, 2001
R-5	Table A3. Births by health district, county of residence of mother and month of occurrence: Utah, 2001
R-6	Table A4. Births by health district, county of residence and age of mother: Utah, 2001
R-7	Table A5. Births by health district, county of residence and race of mother: Utah, 2001
R-8	Table A6. Births by health district, county of residence of mother and birthweight of infant: Utah, 2001
R-9	Table A7. Births by month prenatal care began by number of prenatal visits, residents: Utah, 2001
R-10	Table A8. Births by health district, county of residence of mother and month prenatal care began: Utah, 2001
R-11	Table A9. Births by health district, county of residence of mother and number of prenatal visits: Utah, 2001
R-12	Table A10. Births by race of mother, birth order of infant and age of mother, residents: Utah, 2001
R-14	Table A11. Births by race and age of mother and month prenatal care began, residents: Utah, 2001

(List of Reference Tables continued)

Page	
R-16	Table A12. Births by race and age of mother and number of prenatal visits, residents: Utah, 2001
R-18	Table A13. Births by race of mother, gender and birthweight of infant, residents: Utah, 2001
R-18	Table A14. Births by gestation period and birthweight of infant, residents: Utah, 2001
R-19	Table A15. Births by number of previous births, age and education of mother, residents: Utah, 2001
R-20	Table A16. Births by age and education of parents, residents: Utah, 2001
R-20	Table A17. Births to unmarried mothers by age and education of parents, residents: Utah, 2001
R-21	Table A18. Births to unmarried mothers by health district, county of residence and age of mother: Utah, 2001
R-22	Table A19. Births by marital status of mother, race and age of mother, residents: Utah, 2001
R-22	Table A20. Births by age of mother and birthweight of infant, residents: Utah, 2001
R-23	Table A21. Births by birthweight of infant and tobacco use of mother (trimester of first use of cigarettes), residents: Utah, 2001
R-23	Table A22. Births by birthweight of infant and alcohol use of mother (trimester of first use), residents: Utah, 2001
R-24	Table A23. Births by five-minute apgar score and birthweight of infant, residents: Utah, 2001

(List of Reference Tables continued)

Page	
R-25	Table A24. Births to mothers of Hispanic origin by age of mother, health district and county of residence: Utah, 2001
R-26	Table A-25. Births to mothers of Hispanic origin by race and age of mother and number of prenatal visits, residents: Utah, 2001
R-28	Table A26. Births to mothers of Hispanic origin by race, age of mother and month prenatal care began, residents: Utah, 2001
R-30	Table A27. Births to mothers of Hispanic origin by marital status of mother, race and age of mother, residents: Utah, 2001
R-31	Table A28. Births and deaths by community of occurrence and residence: Utah, 2001
R-39	Table A29. Births, births under 1500 grams and births under 2500 grams, fetal deaths and selected causes of infant death by institution, county of occurrence: Utah, 2001
R-42	Table A30. Fetal deaths by health district, county of residence and age of mother: Utah, 2001
R-43	Table A31. Fetal deaths by selected cause and gender, residents: Utah, 2001
R-45	Table A32. Deaths to infants by race, age and county of residence: Utah, 2001
R-46	Table A33. Deaths to infants by selected causes by gender, race and age, residents: Utah, 2001
R-54	Table A34. Deaths to infants under one year of age by mother's health district and county of residence: Utah, 2001

(List of Reference Tables continued)

Page	
R-55	Table A35. Deaths by health district, county of residence and month: Utah, 2001
R-56	Table A36. Deaths by health district, county of residence, race and gender: Utah, 2001
R-57	Table A37. Deaths by age, race and gender, residents: Utah, 2001
R-58	Table A38a-A38c. Deaths by health district, county of residence, age and gender: Utah, 2001
R-61	Table A39a-A39c. Deaths by selected causes and county of residence: Utah, 2001
R-73	Table A40. Deaths by selected causes and age, residents: Utah, 2001
R-77	Table A41. Deaths by health district, county of occurrence and place where death occurred: Utah, 2001
R-78	Table A42. Deaths from unnatural causes by health district, county of residence: Utah, 2001
R-79	Table A43. Deaths from unnatural causes age and gender, residents: Utah, 2001
R-80	Table A44. Deaths from unnatural causes by race and gender, residents: Utah, 2001
R-81	Table A45. Deaths from injuries due to accidents by cause and month, occurrences: Utah, 2001
R-82	Table A46. Deaths from injuries due to accidents by cause, age and gender, occurrences: Utah, 2001

(List of Reference Tables continued)

Page

R-83	Table A47a-A47c. Deaths to decedents of Hispanic origin by selected causes and county of residence: Utah, 2001
R-95	Table A48. Deaths to decedents of Hispanic origin by health district, county of residence, age and gender: Utah, 2001

## List of Appendices

### Appendix A

A-5	Figure A1. Local health departments, registrars and deputy registrars
A-6	Figure A2. Map of Utah with county borders
A-7	Figure A3. Certificate of live birth
A-8	Figure A4. Certificate of birth (information for medical and health use)
A-9	Figure A5. Certificate of death
A-10	Figure A6. Fetal death certificate

### Appendix B

B-3	Abridged life table for total population, residents: Utah, 2001
B-4	Abridged life table for male population, residents: Utah, 2001
B-5	Abridged life table for female population, residents: Utah, 2001

